

## Appendix A

Ametek and Schutte Koerting Liability and Economic Benefit Analysis  
September 2008

ACL R9-2008-0033

### Economic Gain Analysis Violation No. 1- Failure to Delineate Plume

Reporting		Quantity	Unit	Rate	Total
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#### Site Assessment (SA) Work Plan

1st Iteration	Draft/Final Site Assessment Work Plan	1			\$10,000	Development of Work Plan
2nd Iteration	Draft/Final Amended Workplan Submittal	1			\$5,000	Development of Work Plan Addendum
3rd Iteration	Draft/Final Amended Workplan Submittal	1			\$5,000	Development of Work Plan Addendum
4th Iteration	Draft/Final Amended Workplan Submittal	1			\$5,000	Development of Work Plan Addendum
					<b>\$25,000</b>	

#### Site Assessment (SA) Report

Draft/Final Site Assessment Report	1 draft/1 final				\$110,000	
Meetings to discuss SA Report	2	hours	\$150		\$300	
					<b>\$110,300</b>	

#### Modeling\*

Geologic

Hydrogeologic

Contaminant Fate & Transport

Estimated Dollar Amt. includes, but is not limited to: Establishing GIS Database for all three modeling efforts. Need to format historical data to fit GIS database and input of new data collected as estimated in this spreadsheet). Personnel labor costs include Senior Analysis to run and interpret the models, Database Manager to handle conversion of old data to GIS format and input of newly collected data. More than one iteration of all three models.

\$225,000

**\$225,000**

\* Assuming No GIS Modeling currently conducted for this site.

Project Management		Quantity	Unit	Rate	Total
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#### Project Management Labor

Project Manager	720	hours	\$120		\$86,400
Register Geologist/Engineer	480	hours	\$130		\$62,400
Misc Professionals	240	hours	\$70		\$16,800
Coordination of Private Party Access during field work					\$30,000 *
					<b>\$165,600</b>

\*This amount could potentially be much more depending on a variety of factors. Amount does not include compensation for third party access.

Field Work		Quantity	Unit	Rate	Total
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#### Permits

City R/W Permits	80	hours	\$80		\$6,400
County Well Permits					
Well 1	1	well	\$186		\$186
Well 2 - 75	74	well	\$190		\$14,060

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Field Work Contued	Quantity	Unit	Rate	Total	
<b>Geophysical Investigation</b>					
Seizmic/Resistivity Survey	4	lines	n/a	\$5,000	
<b>Well Drilling/Development</b>					
Utility Clearance	75	wells	\$180	\$13,500	3 clustered wells @ 25 locations
Drill Rig Mobilization and Demobilization	4	iterations	\$1,700	\$6,800	
Drill Wells (20' deep, 2" well diameter)	75	hours	\$350	\$26,250	
Build Wells(20' deep, 2" well diameter)	1500	foot	\$60	\$90,000	
Driller Surface Completions	75	wells	\$350	\$26,250	
Develop Well	75	wells	\$700	\$52,500	
Survey	75	wells	\$48	\$3,600	
<b>Labor-Drilling</b>					
Field Personnel (2)	600	hours	\$80	\$48,000	
Work Truck ( x 2 field personnel)	50	days	\$50	\$2,500	
<b>Disposal (soil + water)</b>					
soil	3	drums	\$300	\$900	
water	75	drums	\$500	\$37,500	
<b>Groundwater Sampling</b>					
Work Truck (x 2 field personnel)	50	days	\$50	\$2,500	
Groundwater Sampling (@ 5 wells/day)	300	hours	\$80	\$24,000	
Disposable Sampling Supplies	75	wells	\$20	\$1,500	
Soil Samples*	390	samples	\$150	\$58,500	* 4 samples per well and includes 30% for QA/QC ** 30% for QA/QC
Water Samples **	98	samples	\$150	\$14,700	
Shipping Samples (soil + water)	75	coolers	\$100	\$7,500	
Soil vapor sample collection (TO-15)	75	sample	\$75	\$5,625	
Soil Vapor Analysis (TO-15)	25	sample	\$175	\$4,375	
				<b>\$452,146</b>	
<b>Subtotal Estimate Economic Gain*</b>				<b>\$978,000</b>	* Rounded down to the nearest \$1000
15% Contingency*				<b>\$146,000</b>	
<b>Total Estimated Economic Gain*</b>				<b>\$1,124,000</b>	

### Economic Gain Analysis Violation No. 2 - Failure to Submit a Feasibility Study Report

Feasibility Study		Quantity	Unit	Rate	Total
Feasibility Study Analysis/Report Generation					\$39,700
Feasibility Study Report Preparation	1 draft/1final				\$10,000
Meetings to discuss FS Report	2	hours	\$150		\$300
<b>Total Estimated Economic Gain*</b>					<b>\$50,000</b>